
Sequence Listing was accepted.

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Reviewer: Anne Corrigan

Timestamp: [year=2008; month=9; day=18; hr=13; min=34; sec=11; ms=211;]

Validated By CRFValidator v 1.0.3

Application No: 10569797 Version No: 1.0

Input Set:

Output Set:

Started: 2008-08-20 11:39:22.667

Finished: 2008-08-20 11:39:26.543

Elapsed: 0 hr(s) 0 min(s) 3 sec(s) 876 ms

Total Warnings: 122

Total Errors: 0

No. of SeqIDs Defined: 135

Actual SeqID Count: 135

Error code		Error Description	
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W	213	Artificial or Unknown found in <213> in SEQ ID (2))
W	213	Artificial or Unknown found in <213> in SEQ ID (3))
W	213	Artificial or Unknown found in <213> in SEQ ID (4))
W	213	Artificial or Unknown found in <213> in SEQ ID (5))
W	213	Artificial or Unknown found in <213> in SEQ ID (6))
M	213	Artificial or Unknown found in <213> in SEQ ID (7))
W	213	Artificial or Unknown found in <213> in SEQ ID (8))
W	213	Artificial or Unknown found in <213> in SEQ ID (9))
W	213	Artificial or Unknown found in <213> in SEQ ID (10))
W	213	Artificial or Unknown found in <213> in SEQ ID (11	1)
W	213	Artificial or Unknown found in <213> in SEQ ID (12	2)
W	213	Artificial or Unknown found in <213> in SEQ ID (13	3)
W	213	Artificial or Unknown found in <213> in SEQ ID (14	1)
W	213	Artificial or Unknown found in <213> in SEQ ID (15	ō)
W	213	Artificial or Unknown found in <213> in SEQ ID (16	ĵ)
W	213	Artificial or Unknown found in <213> in SEQ ID (17	7)
W	213	Artificial or Unknown found in <213> in SEQ ID (18	3)
W	213	Artificial or Unknown found in <213> in SEQ ID (19	9)
W	213	Artificial or Unknown found in <213> in SEQ ID (20))

Input Set:

Output Set:

Started: 2008-08-20 11:39:22.667 **Finished:** 2008-08-20 11:39:26.543

Elapsed: 0 hr(s) 0 min(s) 3 sec(s) 876 ms

Total Warnings: 122
Total Errors: 0

No. of SeqIDs Defined: 135

Actual SeqID Count: 135

Error code		Error Description			
		This error has occured more than 20 times, will not be displayed			
W	251	Found intentionally skipped sequence in SEQID (44)			
W	251	Found intentionally skipped sequence in SEQID (45)			
W	251	Found intentionally skipped sequence in SEQID (50)			

SEQUENCE LISTING

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<110> FIEBIG, UWE
      SCHMOLKE, MIRCO
      DENNER, JOACHIM
      KURTH, REINHARDT
      KARLAS, ALEXANDER
<120> INDUCTION OF ANTIVIRAL NEUTRALIZING ANTIBODIES IN
      HUMANS AND ANIMALS
<130> GULDE-0068
<140> 10569797
<141> 2008-08-20
<150> PCT/DE04/01897
<151> 2004-08-26
<150> DE 10339966.6
<151> 2003-08-26
<150> 60/500,699
<151> 2003-09-08
<160> 135
<170> PatentIn version 3.5
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<400> 1
Gln Ala Arg Gln Leu Leu Ser Asp Ile Val Gln Gln
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<400> 2
Glu Leu Asp Lys Trp Ala Ser Leu Trp Asn Trp Phe Asn
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5

10

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<210> 3
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<220>
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                      10
Ile Val Gln Gln Gln
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     peptide
Glu Leu Asp Lys Trp Ala Ser Leu Trp Asn Trp Phe Asn Ile Thr Asn
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                      10
                                                  15
Trp Leu Trp Tyr
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             5
                      10 15
Val Gln Ala Arg Leu Leu Ser
          20
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Asn Glu Gln Glu Leu Glu Leu Asp Lys Trp Ala Ser Leu Trp Asn
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Trp Phe Asp Ile Thr Asn Trp Leu
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Ile Thr Leu Thr Val Gln Ala Arg Gln Leu Leu Ser
           20
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<213> Artificial Sequence

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                                    10
                                                        15
Leu Thr Leu Thr Val Gln Ala Arg Gln Leu Leu Ser
           20
                               25
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                                    10
Ile Thr Leu Thr Val Gln Ala Arg Gln Leu Leu Ser
          20
                               25
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Phe Leu Gly Phe Leu Gly Ala Ala Gly Ser Thr Met Gly Ala Ala Ser
                                   10
Ile Thr Leu Thr Val Gln Val Arg Gln Leu Leu Ser
            20
                                25
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Phe Leu Gly Val Leu Ser Ala Ala Gly Ser Thr Met Gly Ala Ala Ala
                                  10
Thr Ala Leu Thr Val Gln Thr His Thr Leu Met Lys
         20
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Asn Glu Gln Asp Leu Leu Ala Leu Asp Lys Trp Ala Ser Leu Trp Asn
               5
                                 10
Trp Phe Asp Ile Thr Asn Trp Leu Trp Tyr Ile Lys
          20
                              25
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Asn Glu Gln Asp Leu Leu Ala Leu Asp Lys Trp Ala Asn Leu Trp Asn
                                  10
                                                      15
Trp Phe Asp Ile Ser Asn Trp Leu Trp Tyr Ile Lys
          20
                            25
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Asn Glu Gln Asp Leu Leu Ala Leu Asp Lys Trp Ala Asn Leu Trp Asn

1 5 10 15

Trp Phe Asp Ile Thr Asn Trp Leu Trp Tyr Ile Arg
20 25

<210> 16

<211> 28

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<400> 16

Asn Glu Gln Glu Leu Leu Glu Leu Asp Lys Trp Ala Ser Leu Trp Asn 1 5 10 15

Trp Phe Asp Ile Thr Asn Trp Leu Trp Tyr Ile Lys
20 25

<210> 17

<211> 28

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 17

Asn Glu Lys Asp Leu Leu Ala Leu Asp Ser Trp Gln Asn Leu Trp Asn 1 5 10 15

Trp Phe Asp Ile Thr Asn Trp Leu Trp Tyr Ile Lys 20 25

<210> 18

<211> 28

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 18

Asn Glu Gln Glu Leu Leu Glu Leu Asp Lys Trp Ala Ser Leu Trp Asn 1 5 10 15

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Trp Phe Ser Ile Thr Gln Trp Leu Trp Tyr Ile Lys
           20
                            25
<210> 19
<211> 28
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<223> Description of Artificial Sequence: Synthetic
     peptide
<400> 19
Asn Glu Gln Glu Leu Leu Ala Leu Asp Lys Trp Ala Ser Leu Trp Asn
              5
                                  10
Trp Phe Asp Ile Ser Asn Trp Leu Trp Tyr Ile Lys
       20
<210> 20
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<400> 20
Asn Glu Gln Asp Leu Leu Ala Leu Asp Lys Trp Asp Asn Leu Trp Ser
              5
                                 10
Trp Phe Ser Ile Thr Asn Trp Leu Trp Tyr Ile Lys
        20
<210> 21
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     peptide
<400> 21
Asn Glu Gln Asp Leu Leu Ala Leu Asp Lys Trp Ala Ser Leu Trp Asn
               5
                                  10
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Trp Phe Asp Ile Thr Lys Trp Leu Trp Tyr Ile Lys
20 25

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<210> 22
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     peptide
<400> 22
Asn Glu Gln Asp Leu Leu Ala Leu Asp Lys Trp Ala Ser Leu Trp Asn
                      10
Trp Phe Ser Ile Thr Asn Trp Leu Trp Tyr Ile Lys
          20
                            25
<210> 23
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     peptide
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Asn Glu Lys Lys Leu Leu Glu Leu Asp Glu Trp Ala Ser Ile Trp Asn
1 5
                    10
Trp Leu Asp Ile Thr Lys Trp Leu Trp Tyr Ile Lys
        20
<210> 24
<211> 35
<212> PRT
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     peptide
<400> 24
Ala Val Gly Leu Ala Ile Phe Leu Leu Val Leu Ala Ile Met Ala Ile
    5 10
Thr Ser Ser Leu Val Ala Ala Thr Thr Leu Val Asn Gln His Thr Thr
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25

Ala Lys Val

20

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<210> 25
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     peptide
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Ser Leu Ser Asp Thr Gln Asp Thr Phe Gly Leu Glu Thr Ser Ile Phe
                                  10
Asp His Leu Val Gln Leu Phe Asp Trp Thr Ser Trp Lys Asp Trp Ile
           20
                               25
Lys
<210> 26
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     peptide
<400> 26
Gly Val Gly Leu Val Ile Met Leu Val Ile Met Ala Ile Val Ala Ala
              5
                           10
Ala Gly Ala Ser Leu Gly Val Ala Asn Ala Ile Gln Gln Ser Tyr Thr
           20
                               25
Lys Ala Ala Val Gln Thr Leu Ala Asn
      35
                          40
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Ala Met Thr Gln Leu Ala Glu Gln Ala Arg Arg Ile Pro Glu Val

1 5 10 15

Trp Glu Ser Leu Lys Asp Val Phe Asp Trp Ser Gly Trp Phe Ser Trp 20 25 30

Leu Lys Tyr Ile 35

<210> 28

<211> 39

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 28

Phe Gly Ile Ser Ala Ile Val Ala Ala Ile Val Ala Ala Thr Ala Ile 1 5 10 15

Ala Arg Ser Ala Thr Met Ser Tyr Val Ala Leu Thr Glu Val Asn Lys 20 25 30

Ile Met Glu Val Gln Asn His 35

<210> 29

<211> 39

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<223> Description of Artificial Sequence: Synthetic
 peptide

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Leu Ala Gln Ser Met Ile Thr Phe Asn Thr Pro Asp Ser Ile Ala Gln

1 5 10 15

Phe Gly Lys Asp Leu Trp Ser His Ile Gly Asn Trp Ile Pro Gly Leu 20 25 30

Gly Ala Ser Ile Ile Lys Tyr

35

<210> 30

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                                 10
Ile Leu Arg Asn Trp Tyr Asn Pro Val Ala Gly Leu Arg Gln Ser Leu
           20
                        25
Glu Gln Tyr Gln Val Val Lys Gln Pro Asp Tyr Leu Leu Val Pro Glu
      35
                    40
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Met Asp Ile Glu Gln Asn Asn Val Gln Gly Lys Ile Gly Ile Gln Gln
               5
                                 10
                                                     15
Leu Gln Lys Trp Glu Asp Trp Val Arg Trp Ile Gly Asn Ile Pro Gln
         20
                            25
Tyr Leu Lys
      35
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Gly Ile Gly Leu Val Ile Val Leu Ala Ile Met Ala Ile Ile Ala Ala
                         10
     5
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<212> PRT

Ala Gly Ala Gly Leu Gly Val Ala Asn Ala Val Gln Gln Ser Ser Tyr

20 25 30

Thr Arg Thr Ala Val Gln Ser Leu Ala Asn Ala Thr Ala Ala Gln Gln 35 40 45

Asn

<210> 33

<211> 37

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

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Gln Val Gln Ile Ala Gln Arg Asp Ala Gln Arg Ile Pro Asp Val Trp $1 \hspace{1.5cm} 5 \hspace{1.5cm} 10 \hspace{1.5cm} 15$

Lys Ala Leu Gln Glu Ala Phe Asp Trp Ser Gly Trp Phe Ser Trp Leu 20 25 30

Lys Tyr Ile Pro Trp 35

<210> 34

<211> 42

<212> PRT

<213> Artificial Sequence

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Leu Gly Phe Leu Gly Phe Leu Ala Thr Ala Gly Ser Ala Met Gly Ala 1 5 10 15

Ala Ser Leu Val Thr Ala Gln Ser Arg Thr Leu Leu Ala Val Ile Val 20 25 30

Gln Gln Gln Gln Leu Leu Asp Val Val

35 40

<210> 35

<211> 40

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Glu Glu Ala Gln Ile Gln Glu Lys Asn Met Tyr Glu Leu Trp Lys
                                10
Leu Asn Trp Trp Asp Val Phe Gly Asn Trp Phe Asp Leu Thr Ser Trp
                            25
Asp Leu Thr Ser Trp Ile Lys Tyr
   35
<210> 36
<211> 40
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: Synthetic
     peptide
<400> 36
Leu Gly Ala Leu Gly Phe Leu Gly Ala Ala Gly Ser Thr Met Gly Ala
              5
                                10
Ala Ala Val Thr Leu Thr Val Gln Ala Arg Gln Leu Leu Ser Gly Ile
          20
                   25
Val Gln Gln Asn Asn Leu Leu
      35
<210> 37
<211> 37
<212> PRT
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Glu Glu Ala Gln Ser Gln Gln Glu Lys Asn Glu Arg Asp Leu Leu Glu
     5
                      10
                                              15
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<212> PRT

20 25 30

Leu Trp Tyr Ile Lys 35

<210> 38

<211> 48

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 38

Gly Ile Gly Leu Val Ile Val Leu Ala Ile Met Ala Ile Ile Ala Ala 1 5 10 15

Ala Gly Ala Gly Leu Gly Val Ala Asn Ala Val Gln Gln Ser Tyr Thr 20 25 30

Arg Thr Ala Val Gly Ser Leu Ala Asn Ala Thr Ala Ala Gln Glu 35 40 45

<210> 39

<211> 39

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 39

Glu Ala Ala Leu Gln Val His Ile Ala Gln Arg Asp Ala Arg Arg Ile 1 5 10 15

Pro Asp Ala Trp Lys Ala Ile Gln Glu Ala Phe Asn Asn Trp Ser Ser 20 25 30

Trp Phe Ser Trp Leu Lys Tyr

35

<210> 40

<211> 40

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Leu Gly Phe Leu Gly Phe Leu Ala Thr Ala Gly Ser Ala Met Gly Ala
                           10
Arg Ser Leu Thr Leu Ser Ala Gln Ser Arg Thr Leu Leu Ala Gly Ile
                       25
          20
Val Gln Gln Gln Gln Leu Leu
      35
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Glu Glu Ala Gln Ile Gln Glu Lys Asn Met Tyr Glu Leu Gln Lys Leu
     5
                    10
Asn Ser Trp Asp Ile Leu Gly Asn Trp Phe Asp Leu Ile Ser Trp Val
           20
                            25
                                                30
Lys Tyr Ile Gln
     35
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